

ARRANGEMENT FOR INITIALIZING DIGITAL
EQUALIZER SETTINGS BASED ON COMPARING
DIGITAL EQUALIZER OUTPUTS TO PRESCRIBED
EQUALIZED OUTPUTS

ABSTRACT OF THE DISCLOSURE

A physical layer transceiver, configured for retrieving signal samples from a prescribed network medium having an undetermined length, includes a digital feedforward equalizer, configured for generating equalized signal samples from the retrieved signal samples and based on supplied equalizer settings, and an equalizer controller. The equalizer controller is configured for supplying
5 selected equalizer settings that overcome intersymbol interference encountered by transmission of the signal samples across the prescribed network medium. The equalizer controller is configured for supplying prescribed initial equalizer settings to the digital feedforward equalizer, receiving equalized signal samples from the digital feedforward equalizer, and selectively changing the prescribed initial equalizer settings based on comparing the equalized signal samples to a prescribed equalization
10 threshold. The equalizer controller is configured for selectively repeating the changing of the equalizer settings until the equalized signal samples reach the prescribed equalization threshold.